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IN THE CLAIMS

Claim 1 (currently amended): An impedance matched low noise amplifier circuit, comprising:

- a serially coupled first resistor and first transistor,
- a serially coupled second resistor and second transistor;
- a resistive sensor coupled to the first transistor and the second transistor;
- wherein the first resistor and the second resistor are coupled

interconnected; and

a transconductance feedback block <u>directly</u> coupled to <u>between</u> the resistive sensor and <u>to</u> the serially coupled resistors and transistors.

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Claim 2 (original): The circuit of claim 1 further comprising a first supply voltage coupled to the first transistor and to the second transistor.

Claim 3 (original): The circuit of claim 1 further comprising a second supply voltage coupled to the first resistor and to the second resistor.

Claim 4 (original): The circuit of claim 1, wherein a voltage across the resistive sensor represents data being read from a hard disk in a disk drive storage device.

Claim 5 (original): The circuit of claim 1, wherein the transistors are low noise transistors.

Claim 6 (original): The circuit of claim 1, wherein the transistors are MOS transistors.

Claim 7 (original): The circuit of claim 1, wherein the transistors are bipolar transistors.

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Claim 8 (original): The circuit of claim 1, wherein the transistors perform as common-base amplifiers.

Claim 9 (original): The circuit of claim 1, wherein the transistors perform as common-gate amplifiers.

Claim 10 (currently amended): A method for increasing an input impedance of an amplifier, comprising:

determining an input Impedance at each of a first transistor and a second transistor:

matching the input impedance to an impedance of an interconnect between inputs of the first transistor and the second transistor;

conducting data signals from a resistive sensor coupled to the first transistor and the second transistor to the inputs; and

decreasing current to the transistors, by a transconductance feedback block directly coupled-to between the resistive sensor and to the transistors, by an amount dependant on a voltage between the transistors.

Claim 11 (original): The method of claim 10 further comprising determining the input impedance by a bias current supplied to each of the transistors.

Claim 12 (original): The method of claim 10 further comprising producing a positive voltage or a negative voltage across the resistive sensor based on the data signals.

Claim 13 (original): The method of claim 12, wherein the voltage across the resistive sensor represents data being read from a hard disk in a disk drive storage device.

Claim 14 (original): The method of claim 12, wherein the voltage across the resistive sensor appears at the input of each of the transistors.

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